

Hydroxystilbamidine bis(methanesulfonate)

Chemical Properties

CAS No. : 223769-64-0

Formula: C17H20N4O4S

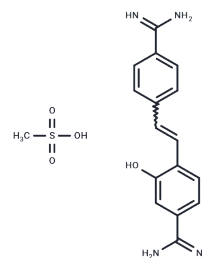
Molecular Weight: 376.43

Storage:

Keep away from moisture, Keep away from direct sunlight

Store at -20°C

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Hydroxystilbamidine bis(methanesulfonate) is a fluorescent cationic dye that binds strongly to DNA and RNA, and is widely used as a retrograde neuronal tracer, while also acting as a potent inhibitor of cellular ribonucleases, making it a versatile research reagent for neuroanatomical tracing, nucleic acid labeling, and studies of RNA stability and degradation.
Targets(IC50)	Others
In vitro	The trypanocidal dye Hydroxystilbamidine bis(methanesulfonate) facilitates mRNA recovery following polysome release with Nonidet P-40 (NP-40), as analyzed by sucrose gradient distribution of detergent-lysed postnuclear supernates [1].
In vivo	In mouse models immunized with Sheep Red Blood Cells (SRBC), Hydroxystilbamidine bis(methanesulfonate) has been evaluated for its effects on the immune response. Administration of the compound is associated with a reduction in the count of Plaque-Forming Cells (PFC) [2].

Solubility Information

Solubility	H2O: 40 mg/mL (106.26 mM), Sonication is recommended. DMSO: 40 mg/mL (106.26 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6565 mL	13.2827 mL	26.5654 mL
5 mM	0.5313 mL	2.6565 mL	5.3131 mL
10 mM	0.2657 mL	1.3283 mL	2.6565 mL
50 mM	0.0531 mL	0.2657 mL	0.5313 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Lizardi PM. Isolation of giant silk fibroin polysomes and fibroin mRNP particles using a novel ribonuclease inhibitor, hydroxystilbamidine. *J Cell Biol.* 1980 Oct;87(1):292-6.

Folds JD, et al. Immunosuppression by hydroxystilbamidine isethionate, a lysosome-stabilizing, anti-proteolytic, antifungal drug. *Infect Immun.* 1975 Mar;11(3):441-4.

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